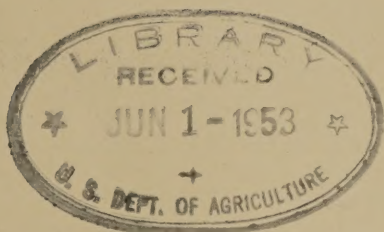


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TECHNICAL
BULLETINS



May 1, 1952

U. S. DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
TECHNICAL STANDARDS DIVISION

- **VOLTAGE EVALUATION AND VOLTAGE IMPROVEMENT OF RURAL DISTRIBUTION SYSTEMS.** May 1952. A 4-page leaflet on the subject of evaluating and improving voltage levels. See also **VOLTAGE LEVELS ON RURAL DISTRIBUTION SYSTEMS**, listed below.
- **APPLICATION OF SHUNT CAPACITORS TO THE RURAL ELECTRIC SYSTEM.** April 1952. 29 pages.
- **STATUS REPORT ON EQUIPMENT PERFORMANCE.** January 1952 (17-page booklet) and March 1952 (12-page booklet). Quarterly periodical. Reports show results to date on survey continuously being made on failures of items of equipment and causes of failures. The purpose of this periodical is to inform REA borrowers as to the reasons for failures of equipment and to aid in the preventive maintenance program.
- **VOLTAGE LEVELS ON RURAL DISTRIBUTION SYSTEMS.** March 1952. 11-page booklet concerning the maintenance of adequate voltage levels on the distribution system from the substation down to the consumers' wiring. This booklet stresses the importance of satisfactory voltage levels and minimum voltage variation, and shows the voltage on the lines under given conditions.
- **TELEVISION INTERFERENCE IN RURAL AREAS.** December 1951. A 7-page booklet describing the various types of television interference encountered in rural areas among REA borrowers' consumers. Tells briefly how to eliminate much of this interference. Stresses that only a small percentage of annoying TV interference originates with power lines.
- **CHEMICAL BRUSH CONTROL DORMANT TREATMENTS.** September 1951. 4-page leaflet describing treatment of brush on REA borrowers' rights-of-way during periods when the plants are dormant. See also **PROGRESS REPORT ON CHEMICAL BRUSH CONTROL** and **INTERIM REPORT ON CHEMICAL CONTROL OF RIGHT-OF-WAY BRUSH ON RURAL POWER SYSTEMS**, listed below.
- **SYSTEM VOLTAGE LIMITS FOR SATISFACTORY TELEVISION RECEIVER OPERATION.** August 1951. 4-page leaflet.
- **DEMAND TABLES.** August 1951. A 29-page booklet of tables showing the demand in kw for from 5 to 10000 consumers for a consumption of from 50 kwh per month per consumer to 1000 kwh per month per consumer. These tables were prepared to facilitate distribution systems studies where demand data is needed.
- **ABSTRACTS ON LIGHTING AND WIRING.** August 1951. A 30-page catalog prepared to assist workers engaged in the application of electricity to the farm and home to become acquainted with useful technical data and information on lighting and wiring. Lists 150 publications, with a summary of each, and information as to how to procure them.

- **WATTHOUR METER MAINTENANCE.** June 1951. A 16-page booklet describing the methods of testing, cleaning and repairing of watthour meters. Lists and describes equipment needed to establish a meter testing and repair shop.
- **REPORT ON FIELD TESTS OF HENRY PHASE CONVERTER.** April 1951. A 4-page leaflet describing the results of tests performed by engineers of the Technical Standards Division, REA, on the Henry Phase Converter (trade name). See also **REPORT ON THE HENRY PHASE CONVERTER**, listed below.
- **ELECTRICITY IN CROP CONDITIONING.** March 1951. An 88-page booklet summarizing the latest recommendations on crop curing or conditioning by the various States Agricultural Colleges, the U. S. Department of Agriculture, and other recognized sources of authentic information.
- **ELECTRIC RADIANT HOUSE HEATING.** December 1950. A 9-page pamphlet describing types of electric heating equipment available for homes, and comparing costs of various methods of house heating.
- **STATUS REPORT ON PIN INSULATOR FAILURES.** November 1950. A 3-page leaflet describing the present status of an investigation of the problem of pin insulator failures due to puncturing.
- **ELECTRIC HOME PASTEURIZERS.** October 1950. A 9-page pamphlet describing various types of equipment and methods for pasteurization of milk for home use only.
- **LOCATION OF RADIO INTERFERENCE ON RURAL POWER SYSTEMS.** September 1950. A 13-page booklet describing sources of radio interference, methods of location, requirements for a radio interference locator, listing some locators available on the market and tells how to modify a truck radio for radio interference investigations.
- **REPORT ON THE HENRY PHASE CONVERTER.** August 1950. A 2-page leaflet summarizing information concerning the Henry Phase Converter (trade name). See also **REPORT ON FIELD TESTS OF HENRY PHASE CONVERTER**, listed above.
- **ABSTRACTS ON CROP CONDITIONING.** August 1950. A 27-page catalog of reference publications concerning the curing or drying of various crops.
- **PROGRESS REPORT ON CHEMICAL BRUSH CONTROL.** August 1950. A 42-page booklet describing the work done to date on chemical control of undesirable brush growing on REA borrowers' rights-of-way. See also **CHEMICAL BRUSH CONTROL DORMANT TREATMENTS**, listed above, and **INTERIM REPORT ON CHEMICAL CONTROL OF RIGHT-OF-WAY BRUSH ON RURAL POWER SYSTEMS**, listed below.
- **SYSTEM OUTAGE MONITOR--STATUS REPORT ON EXPERIMENTAL DEVELOPMENT.** July 1950. A 2-page leaflet giving a non-technical summary of the system outage monitor.

☐ RECLOSER MAINTENANCE. June 1950. A 4-page leaflet on the inspection and maintenance of oil circuit reclosers.

☐ DEFINITION OF TERMS COMMONLY USED IN THE TELEPHONE INDUSTRY. May 1950. An 8-page dictionary of terms used in the telephone industry.

☐ INVESTIGATION OF OVERVOLTAGES ON RURAL DISTRIBUTION SYSTEMS UNDER LINE TO GROUND FAULT CONDITIONS. March 1950. A 23-page pamphlet describing the results of field tests on this subject.

☐ ELECTRIC WATER HEATER INVESTIGATION--(OHIO 95 FRANKLIN). 1949. 13 pages plus 12 charts showing the results of an investigation on the use of electric water heaters among the consumers of the Ohio Midland Light and Power Company of Canal Winchester, Ohio.

☐ OFF-PEAK CONTROL OF WATER HEATERS ON RURAL POWER SYSTEMS. June 1949. 66-pages. Information on the characteristics of water heater loads and their relation to the rural system load, based on conditions observed during one season of the year on two rural power distribution systems.

☐ TRANSFORMER PROBLEMS. May 1949. A 24-page booklet intended to present in condensed form the solution of many problems occurring in transformer operation on rural distribution systems.

☐ INTERIM REPORT ON CHEMICAL CONTROL OF RIGHT-OF-WAY BRUSH ON RURAL POWER SYSTEMS. May 1949. A 20-page summary of the information gathered to date on the subject of chemical control of undesirable brush growing on rights-of-way. See also PROGRESS REPORT ON CHEMICAL BRUSH CONTROL and CHEMICAL BRUSH CONTROL DORMANT TREATMENTS, listed above.

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